1/6 The Enzymes of the Shikimate-Pathway

1. 3-Deoxy-D-arabinoheptulosonate-7-Phosphate-Synthase

2. 5-Dehydrochinate-Synthase

3. 5-Dehydrochinate-Dehydrogenase

4. Dehydroshikimate-Dehydrogenase

5. Shikimate-Kinase

6. Englavrovilshikimate, 5. Phosphate Synthase D-Erythrose<sup>-4</sup>phosphate P° 6. Enolpyrovylshikimate-5-Phosphate-Synthase 7. Chorismate Synthase Phosphoenolpyruvate 1 HOl COO 2 3, 4, 5, 6 P° ÕH  $\hbox{$3$-Deoxy-D-arabinoheptulosonate-7-Phosphate}$ 5-Dehydrochinate Enolpyrovylshikimate-5-Phosphate cco-Chorismate mutase Prephenate Phenylpyruvate Chorismate СООН ĊOO. Anthranilate Phenylalanine Hydroxyphenylpyruvate Tryptophan. coo. Tyrosine

FIGURE

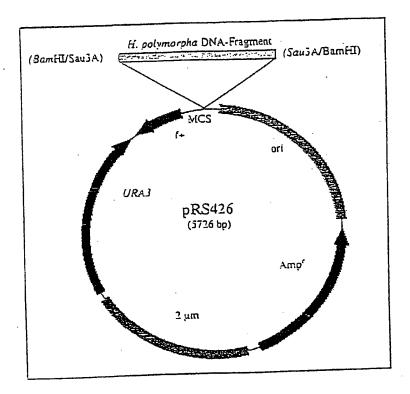


FIGURE 2

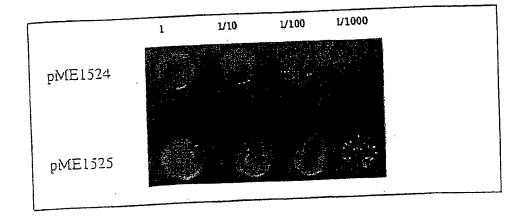


FIGURE 3

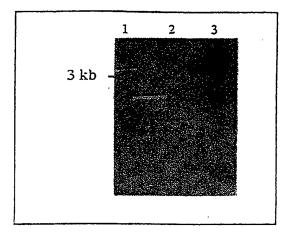


FIGURE 4

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## FIGURE 5

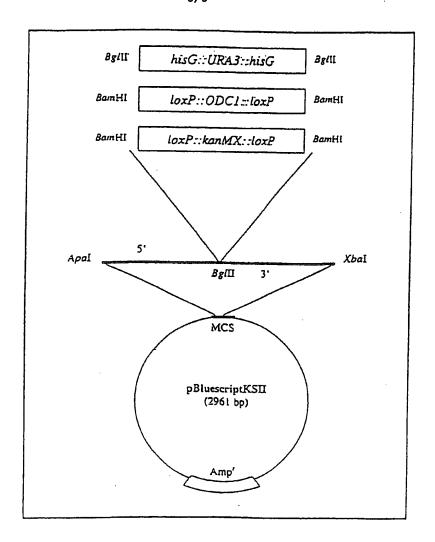


FIGURE 6

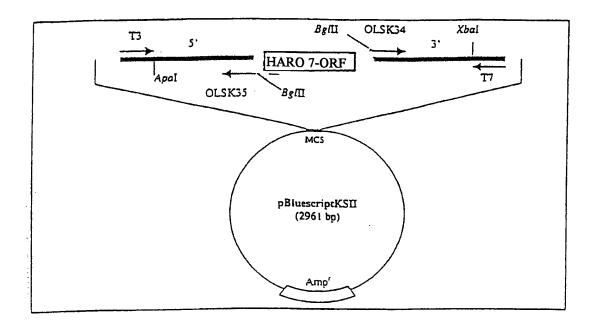


FIGURE 7